

## ROCKVILLE JOHN DEERE 350G M08-0875 1FF350GXCGF811198

## **Diesel Engine**

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

RECOMMENDATION	Toot		Mothod	Limit/Abo	Current	History	History?
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current JR0165555	History1 JR0125502	History2
	Sample Date		Client Info		15 Jul 2023	03 Nov 2022	16 Apr 2019
	Machine Age	hrs	Client Info		6725	5597	2779
	Oil Age	hrs	Client Info		0	400	500
	Filter Age	hrs	Client Info		0	400	500
	Oil Changed	1113	Client Info		Changed	Not Changd	N/A
	Filter Changed		Client Info		Changed	Not Change	Not Chang
	Sample Status				ABNORMAL	SEVERE	NORMAL
WEAR	Iron	ppm	ASTM D5185m		49	42	38
Valve wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	1	1
	Nickel	ppm	ASTM D5185m	>5	<b>1</b> 3	0	2
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	8
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		2	1	18
	Tin	ppm	ASTM D5185m	>4	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	4	5	5
	Potassium	ppm	ASTM D5185m		<1	2	1
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.2	▲ 7.4	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	11.1	7.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	22.4	20
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	nom	ASTM D5185m	<u>_</u> 21	4	0	3
	Boron	ppm ppm	ASTM D5185m	>01	33	43	17
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	2	<1
	Molybdenum	ppm	ASTM D5185m		97	60	320
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		1080	904	1058
	Calcium	ppm	ASTM D5185m		1153	944	1133
	Phosphorus	ppm	ASTM D5185m		1017	917	1181
	Zinc	ppm	ASTM D5185m		1309	1101	1247
	Sulfur	ppm	ASTM D5185m		3770	3223	3191
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	18.9	15.4
	Base Number (BN)	mg KOH/g			8.3	9.2	8.1
				45.4		4.4.0	10.01

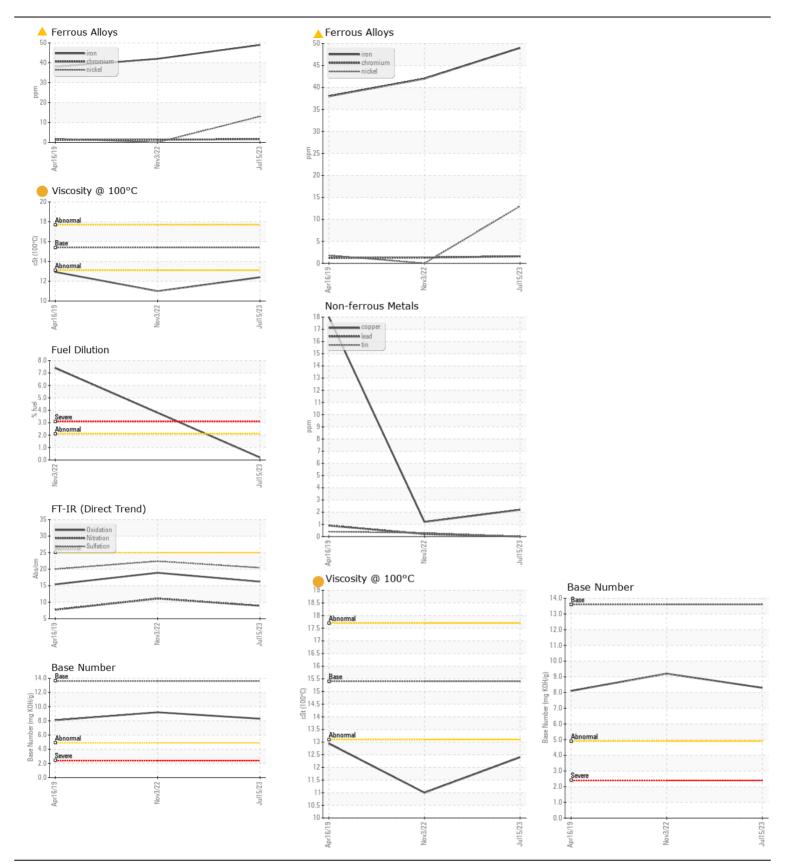
Visc @ 100°C cSt

ASTM D445 15.4

11.0

12.94

12.4



LUCK STONE - MILFORD Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0165555 Received 19380 RICHMOND TURNPIKE : 18 Jul 2023 ġ, Lab Number : 05901090 Tested : 19 Jul 2023 MILFORD, VA Unique Number : 10562446 Diagnosed : 19 Jul 2023 - Don Baldridge US 22514 Test Package : CONST ( Additional Tests: PercentFuel, TBN ) Contact: BRYAN MORRIS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bmorris@luckstone.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)400-3630 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Contact/Location: BRYAN MORRIS - LUCMIL Page 2 of 2